



## SEQUENCE LISTING

<110> Merr, John C.  
Coonrod, Scott A.

<120> EGG-SURFACE PROTEINS AND METHODS OF THEIR USE FOR MODULATING FERTILITY

<130> 9426-004-999

<140> 09/720,262

<141> 2001-03-26

<150> 60/089,950

<151> 1998-06-19

<160> 6

<170> PatentIn version 3.0

<210> 1

<211> 1315

<212> DNA

<213> Homo sapiens

<400> 1

```
gaggcggctg cctgctgctc tgcagggtacc atggagctga gctataggct cttcatctgc      60
ctcctgctct ggggtagtac tgagctgtgc  taccccaac ccctctggct cttgcagggt      120
ggagccagcc atcctgagac gtccgtacag cccgtactgg tggagtgtca ggaggccact      180
ctgatggtca tggtcagcaa agaccttttt ggcaccggga agctcatcag ggctgctgac      240
ctcaccttgg gccagaggc ctgtgagcct ctgggtctcca tggacacaga agatgtggtc      300
aggtttgagg ttggactcca cgagtgtggc aacagcatgc aggttaactga cgatgccctg      360
gtgtacagca ccttcctgct ccatgacccc cgccccgtgg gaaacctgtc catcgtgagg      420
actaaccgcg cagagattcc catcgagtgc cgctacccca ggcagggcaa tgtgagcagc      480
caggccatcc tgcccacctg gttgcccttc aggaccacgg tgttctcaga ggagaagctg      540
actttctctc tgcgtctgat ggaggagaac tggaaacgtg agaagaggtc cccacacctc      600
cacctgggag atgcagccca cctccaggca gaaatccaca ctggcagcca cgtgccactg      660
cggttggttg tggaccactg cgtggccaca ccgacaccag accagaatgc ctccccttat      720
cacaccatcg tggacttcca tggctgtctt gtcgacggtc tcaactgatgc ctcttctgca      780
ttcaaagttc ctcgaccogg gccagataca ctccagttca cagtggatgt cttccacttt      840
gctaatagct ccagaaacat gatatacatc acctgccacc tgaaggtcac cctagctgag      900
caggaccagc atgaactcaa caaggcctgt tccttcagca agccttccaa cagctgggtc      960
ccagtggaaq gcccggtga catctgtcaa tgctgtaaca aagggtgactg tggcactcca     1020
agccattcca ggaggcagcc tcatgtcatg agccagtggc ccacgtctgc ttcccgtaac     1080
cgcaggcatg tgacagaaga agcagatgtc accgtggggg ccaactgatct tcttggacag     1140
gagtgggtgac catgaagtag agcagtgggc tttgccttct gacacctcag tgggtgctgct     1200
gggcgtaggc ctggctgtgg tgggtgtccct gactctgact gctgttatcc tgggttctcac     1260
caggagggtg cgcactgcct cccaccctgt gtctgcttcc gaataaaaaga agaaa          1315
```

<210> 2

<211> 372

<212> PRT

<213> Homo sapiens

<400> 2

```
Met Glu Leu Ser Tyr Arg Leu Phe Ile Cys Leu Leu Leu Trp Gly Ser
1          5          10          15
Thr Glu Leu Cys Tyr Pro Gln Pro Leu Trp Leu Leu Gln Gly Ala
20          25          30
Ser His Pro Glu Thr Ser Val Gln Pro Val Leu Val Glu Cys Gln Glu
35          40          45
```

Ala	Thr	Leu	Met	Val	Met	Val	Ser	Lys	Asp	Leu	Phe	Gly	Thr	Gly	Lys
50						55					60				
Leu	Ile	Arg	Ala	Ala	Asp	Leu	Thr	Gly	Gly	Pro	Glu	Ala	Cys	Glu	Pro
65					70					75					80
Leu	Val	Ser	Met	Asp	Thr	Glu	Asp	Val	Val	Arg	Phe	Glu	Val	Gly	Leu
				85					90					95	
His	Glu	Cys	Gly	Asn	Ser	Met	Gln	Val	Thr	Asp	Asp	Ala	Leu	Val	Tyr
			100					105					110		
Ser	Thr	Phe	Leu	Leu	His	Asp	Pro	Arg	Pro	Val	Gly	Asn	Leu	Ser	Ile
		115					120					125			
Val	Arg	Thr	Asn	Arg	Ala	Glu	Ile	Pro	Ile	Glu	Cys	Arg	Tyr	Pro	Arg
		130				135					140				
Gln	Gly	Asn	Val	Ser	Ser	Gln	Ala	Ile	Leu	Pro	Thr	Trp	Leu	Pro	Phe
145					150					155					160
Arg	Thr	Thr	Val	Phe	Ser	Glu	Glu	Lys	Leu	Thr	Phe	Ser	Leu	Arg	Leu
				165					170					175	
Met	Glu	Glu	Asn	Trp	Asn	Ala	Glu	Lys	Arg	Ser	Pro	Thr	Phe	His	Leu
			180					185					190		
Gly	Asp	Ala	Ala	His	Leu	Gln	Ala	Glu	Ile	His	Thr	Gly	Ser	His	Val
		195					200					205			
Pro	Leu	Arg	Leu	Phe	Val	Asp	His	Cys	Val	Ala	Thr	Pro	Thr	Pro	Asp
		210				215					220				
Gln	Asn	Ala	Ser	Pro	Tyr	His	Thr	Ile	Val	Asp	Phe	His	Gly	Cys	Leu
225					230					235					240
Val	Asp	Gly	Leu	Thr	Asp	Ala	Ser	Ser	Ala	Phe	Lys	Val	Pro	Arg	Pro
				245					250					255	
Gly	Pro	Asp	Thr	Leu	Gln	Phe	Thr	Val	Asp	Val	Phe	His	Phe	Ala	Asn
			260					265					270		
Asp	Ser	Arg	Asn	Met	Ile	Tyr	Ile	Thr	Cys	His	Leu	Lys	Val	Thr	Leu
		275					280					285			
Ala	Glu	Gln	Asp	Pro	Asp	Glu	Leu	Asn	Lys	Ala	Cys	Ser	Phe	Ser	Lys
		290				295					300				
Pro	Ser	Asn	Ser	Trp	Phe	Pro	Val	Glu	Gly	Pro	Ala	Asp	Ile	Cys	Gln
305					310					315					320
Cys	Cys	Asn	Lys	Gly	Asp	Cys	Gly	Thr	Pro	Ser	His	Ser	Arg	Arg	Gln
			325						330					335	
Pro	His	Val	Met	Ser	Gln	Trp	Ser	Thr	Ser	Ala	Ser	Arg	Asn	Arg	Arg
			340					345					350		
His	Val	Thr	Glu	Glu	Ala	Asp	Val	Thr	Val	Gly	Ala	Thr	Asp	Leu	Pro
		355					360					365			
Gly	Gln	Glu	Trp												
			370												

<210> 3  
 <211> 4  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of Artificial Sequence: Protein Motif

<400> 3  
 Lys Asp Glu Leu  
 1

<210> 4  
 <211> 7  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of Artificial Sequence: Protein Motif

<400> 4  
Ser Phe Ser Asp Phe Leu Lys  
1 5

<210> 5  
<211> 13  
<212> PRT  
<213> Artificial

<220>  
<221> SITE  
<222> 1, 2, 10, 11, 12  
<223> Xaa = Any Amino Acid

<220>  
<221> SITE  
<222> 3  
<223> Xaa = Ile or Leu

<220>  
<223> Description of Artificial Sequence: Protein Motif

<400> 5  
Xaa Xaa Xaa Pro Glu Ala Thr Thr Gly Xaa Xaa Xaa Lys  
1 5 10

<210> 6  
<211> 8  
<212> PRT  
<213> Artificial

<220>  
<221> SITE  
<222> 1, 2, 10, 11, 12  
<223> Xaa = Any Amino Acid

<220>  
<221> SITE  
<222> 4  
<223> Xaa = Ile or Leu

<220>  
<223> Description of Artificial Sequence: Protein Motif

<400> 6  
Xaa Xaa Ser Xaa Val Asn Ser Xaa  
1 5